

United States
Department of
Agriculture

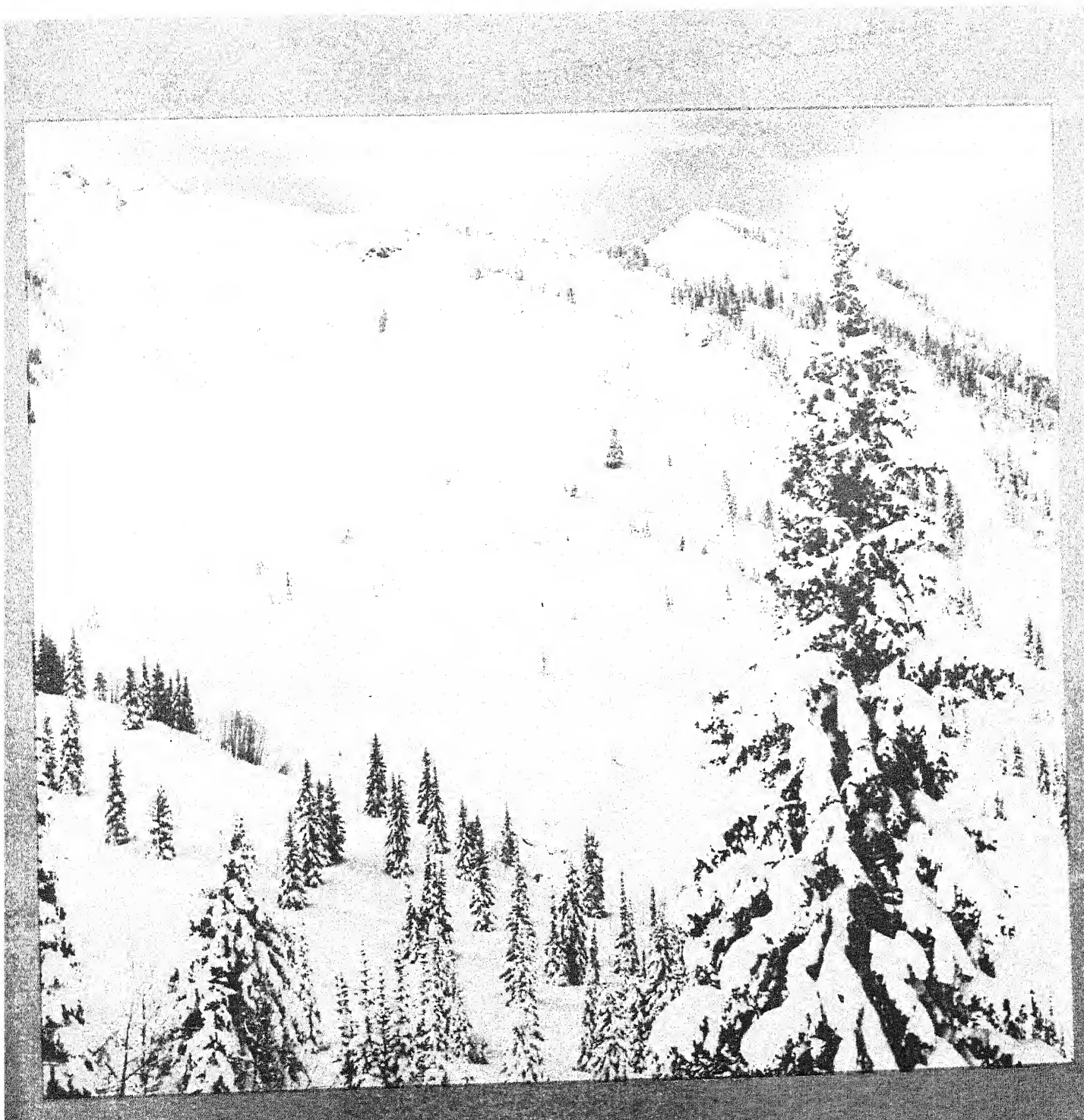
Soil
Conservation
Service

Salt Lake City,
Utah



Utah Water Supply Outlook

January 1, 1986



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for all of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Office, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Division of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Utah

Water Supply Outlook

and

Federal – State – Private Cooperative Snow Surveys

Issued by

Wilson Scaling
Chief
Soil Conservation Service
Washington, D. C.

Released by

Francis T. Holt
State Conservationist
Soil Conservation Service
Salt Lake City, Utah

In cooperation with

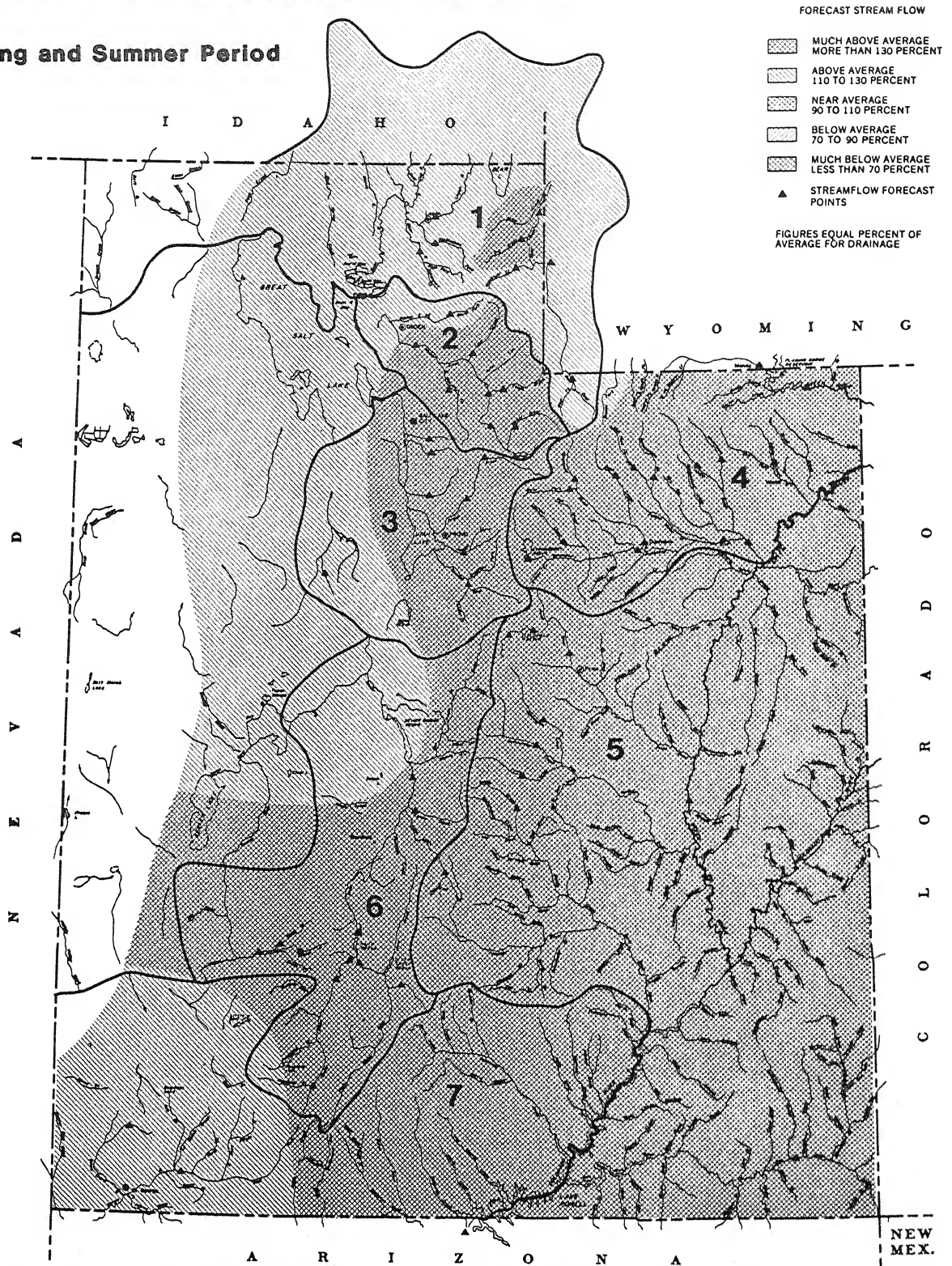
Utah State Department of Natural Resources	
Robert L. Morgan	D. Larry Anderson
State Engineer	Director
Division of Water Rights	Division of Water Resources

Prepared by

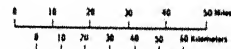
Jon G. Werner
Snow Survey Supervisor
Soil Conservation Service
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Salt Lake City, Utah 84147

Streamflow Prospects for Utah

Spring and Summer Period



- 1 BEAR RIVER BASIN
- 2 WEBER & OGDEN WATERSHEDS IN UTAH
- 3 UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
- 4 UNITAH BASIN & DAGGET SCD'S
- 5 CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO.
- 6 SEVIER & BEAVER RIVER BASINS
- 7 E. GARFIELD, KANE, WASHINGTON, & IRON CO.



GENERAL OUTLOOK

SUMMARY:

Excellent water supplies are forecasted for this season with the heavy fall precipitation and early snowfalls. Saturated mountain soil profiles and current snowpacks ranging from normal to twice normal support forecasts of spring and summer streamflows of the same magnitude.

SNOWPACK:

Snowpack on all watersheds of the state which were surveyed was greater than normal for January 1. Southwestern Utah, compared to average, had the least snow with 114% while the Uinta Mountains came in at an impressive 174%.

PRECIPITATION:

Precipitation at mountain stations was well above average over the entire State for the October through December period ranging from 121% in the southwest to 163% over the Uinta Mountains.

RESERVOIRS:

Storage in 26 of the major reservoirs in Utah as of the end of December was at 134% of average for that date. Carryover was very good again this year in most reservoirs in the state.

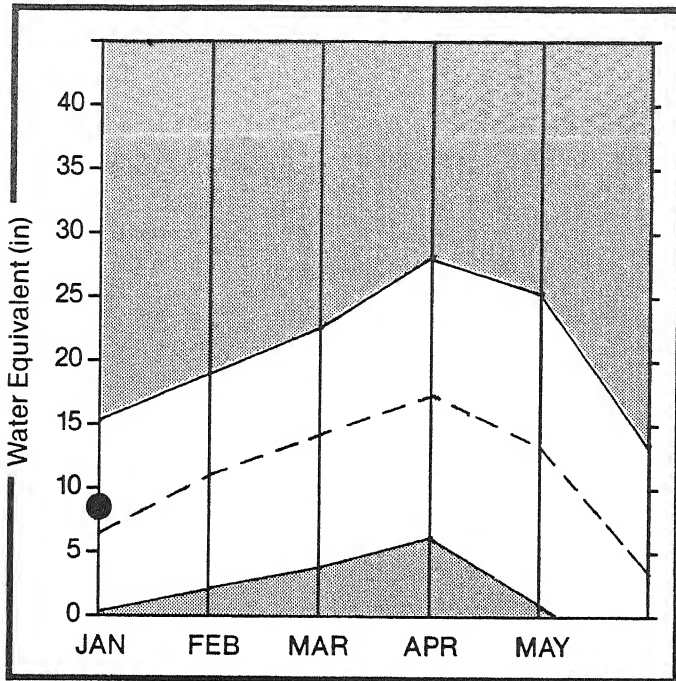
STREAMFLOW:

Water supply forecasts throughout the state are near to much above average ranging from 90% for South Willow Creek near Grantsville to more than three times average on the Sevier.

Forecasts prepared for this bulletin represent cooperative efforts of the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users and managers.

Bear River Basin

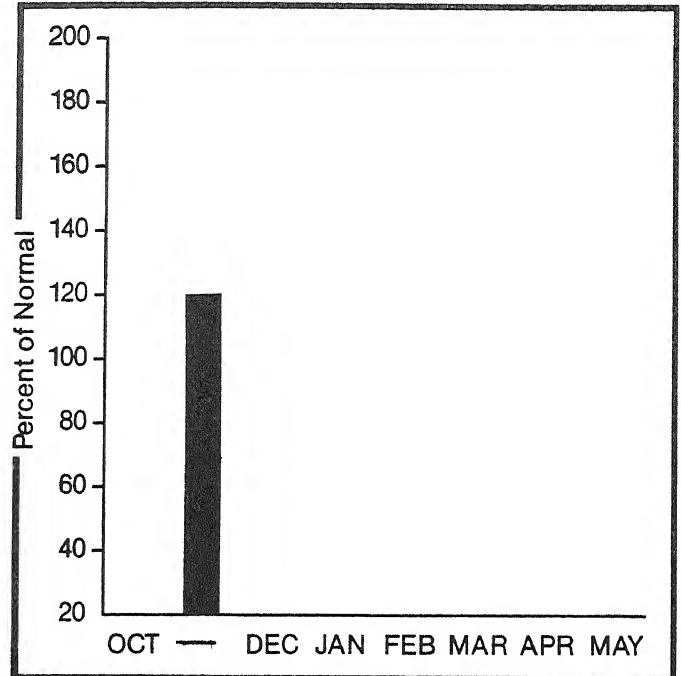
Mountain snowpack* (inches)



*Based on selected stations

Maximum  Average 
 Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snowpack on the Bear River Watershed stands at 134% of the January 1 average. Snowpack on the Logan River is 131% of normal for this time of year. Streamflow forecasts range from 102% for Smith's Fork near Border to 137% for Big Creek near Randolph. Seasonal precipitation (October through December) is at 121% of average. Reservoir storage ranges from 103% of average in Hyrum Reservoir to 221% in Porcupine Reservoir.

For more information contact your local Soil Conservation Service office:
 Tremonton Field Office 801-257-5403
 Logan Field Office 801-753-5616

BEAR RIVER BASIN

STREAMFLOW FORECASTS

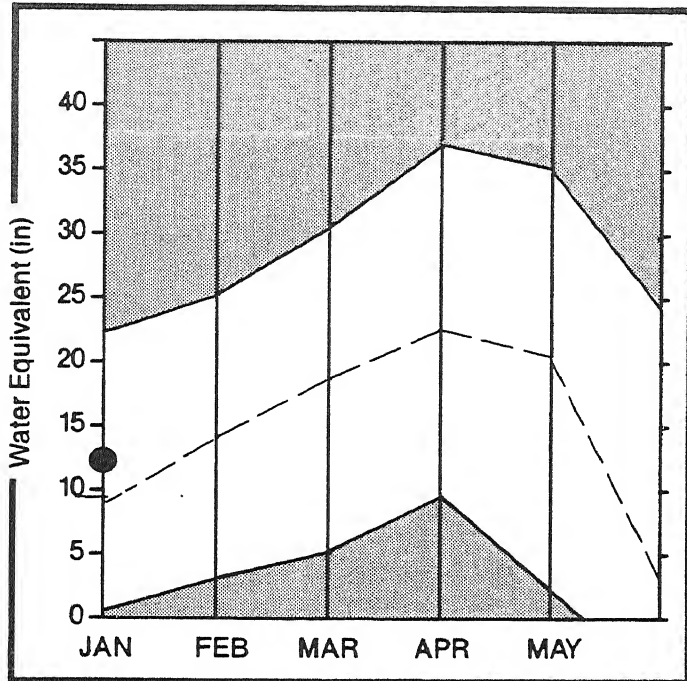
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BEAR RIVER near UT-WY Stateline	APR-JUL	110.0	127.0	115.0	145.5	82.7	1700			
BEAR near Woodruff	APR-JUL	139.0	153.0	110.0	164.0	53.2				
WOODRUFF CREEK near Woodruff	APR-JUL	17.3	19.4	112.0	138.7	80.9	271			
BIG CREEK near Randolph	APR-JUL	5.3	7.3	137.0	188.7	75.5	60			
BEAR near Randolph	APR-JUL	110.0	143.0	130.0	197.3	62.7				
THOMAS FORK near Stateline	APR-SEP	35.0	36.0	102.0	131.4	74.3				
SMITHS FORK near Border	APR-SEP	119.0	122.0	102.0	130.3	74.8				
BEAR RIVER near Harev	APR-SEP	310.0	325.0	104.0	145.8	71.0				
LOGAN RIVER near Logan	APR-JUL	116.0	134.0	115.0	145.7	89.7	1140			
BLACKSMITH FORK near Hyrum	APR-JUL	51.0	58.0	113.0	164.7	68.6				
LITTLE BEAR RIVER near Paradise	APR-JUN	38.0	45.6	120.0	178.9	63.2	520			
CUB RIVER near Preston	APR-JUL	46.8	51.0	108.0	175.1	66.2				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
BEAR LAKE	1421.0	1073.7	1095.3	973.3	BEAR RIVER, UPPER IN UTAH	5	92 134
HYRUM	15.3	10.3	10.3	10.0	BEAR RIVER, LOWER IN UTAH	10	83 147
PORCUPINE	11.3	6.2	3.9	2.8	BEAR RIVER DRAINAGE IN UT	15	85 143
WOODRUFF NARROWS		NO REPORT			BEAR RIVER, UPPER (above	11	101 123
WOODRUFF CREEK		NO REPORT			BEAR RIVER, LOWER (below	13	92 145
					BEAR RIVER DRAINAGE	23	96 133
					LOGAN RIVER	5	75 131
					RAFT RIVER	0	0 0
					BEAR RIVER BASIN	27	91 134

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

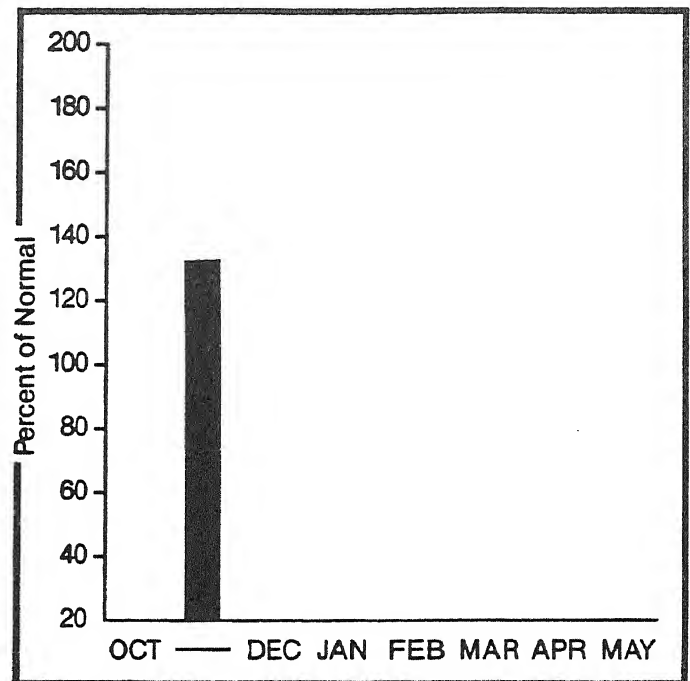
Weber & Ogden Watersheds

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

Maximum  Average 
Minimum  Current 

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snowpack on the Weber River Watershed is 145% of the January 1 average. Ogden River snowpack is 154% of normal. Streamflow forecasts range from 121% of average for Pineview Reservoir Inflow to 160% for Chalk Creek near Coalville. Precipitation for the October through December period averaged 133% of normal across the basin. Reservoir storage as of the end of December stood at 136% of average and 78% of total usable capacity.

For more information contact your local Soil
Conservation Service office:
Layton Sub Office 801-544-9144

WEBER & OGDEN WATERSHEDS in Utah

STREAMFLOW FORECASTS

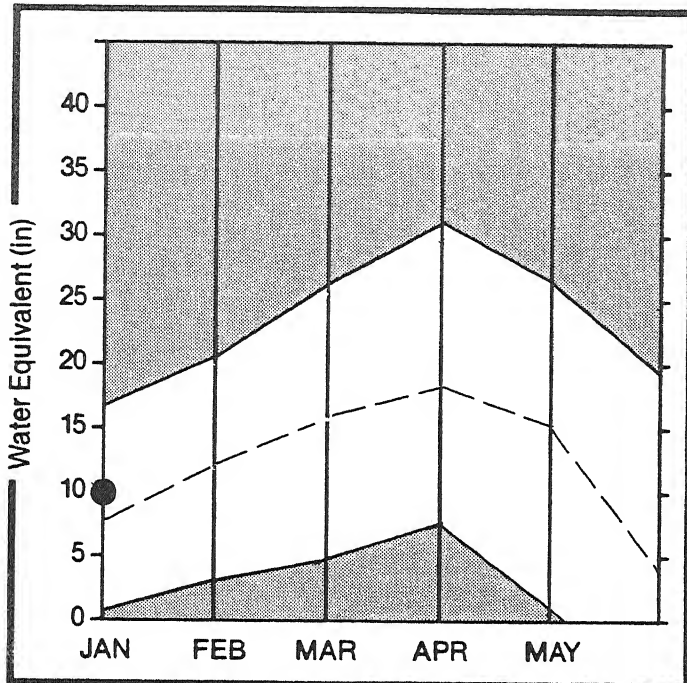
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST PROBABLE (1000AF)	HIST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WEBER RIVER near Oakley	APR-JUN	102.0	142.0	139.0	176.5	105.9	2002			
ROCKPORT RESERVOIR inflow	APR-JUN	111.0	163.0	146.0	198.2	100.9				
CHALK CREEK near Coalville	APR-JUN	36.0	58.0	160.0	211.0	125.0	860			
WEBER RIVER near Coalville	APR-JUN	119.0	177.0	148.0	195.8	110.9				
LOST CREEK near Crowden	APR-JUN	15.6	20.7	132.0	198.7	70.5				
EAST CANYON CREEK near Morgan	APR-JUN	25.0	32.0	128.0	184.0	80.0				
HARDSCRABBLE CREEK near Porterville	APR-JUL	18.4	24.0	130.0	206.5	54.3				
SOUTH FORK OGDEN RIVER near Huntville	APR-JUN	57.0	70.0	122.0	157.9	82.5				
PINEVIEW RESERVOIR inflow	APR-JUN	115.0	140.0	121.0	150.4	86.1				
HO RESERVOIR inflow	APR-JUN	145.0	218.0	150.0	197.0	112.0				
BER RIVER at Gateway	APR-JUN	300.0	420.0	140.0	177.0	105.0				
ARMINGTON CREEK near Farmington	APR-JUL	8.2	10.0	121.0	195.1	48.8				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE. D	THIS YEAR AS % OF LAST YR. AVERAGE	
CAUSEY	0.9	1.9	5.2	2.1	OGDEN RIVER	4	75	154
EAST CANYON	48.1	41.0	46.6	33.3	WEBER RIVER	13	84	145
ECHO	73.9	57.5	69.0	41.4	WEBER & OGDEN WATERSHEDS	17	81	147
LOST CREEK	20.0	15.3	16.9	12.7				
PINEVIEW	110.1	68.9	74.0	50.0				
ROCKPORT	60.9	38.5	48.0	34.1				
HILLARD BAY	165.5	155.1	168.2	104.9				

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Utah Lake, Jordan River & Tooele Valley

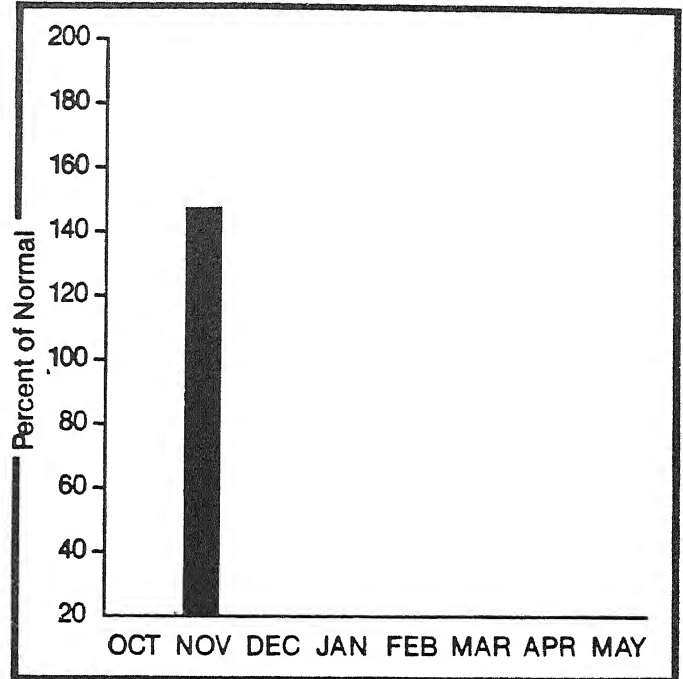
Mountain snowpack* (inches)



*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snowpack on the Provo River is 152% of normal for the first of January. Snowpack for the entire Utah Lake drainage is 134% of average. The drainages along the Wasatch front east of Salt Lake Valley have 124% of normal snowpack. Streamflow forecasts range from near normal in Tooele County to more than twice normal on Emigration Creek near Salt Lake City. Mountain precipitation totals for October through December were 148% of average. Reservoir storage is 148% of average.

For more information contact your local Soil
Conservation Service office:
Midvale Field Office 801-524-4373
Provo Field Office 801-377-5580

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

STREAMFLOW FORECASTS

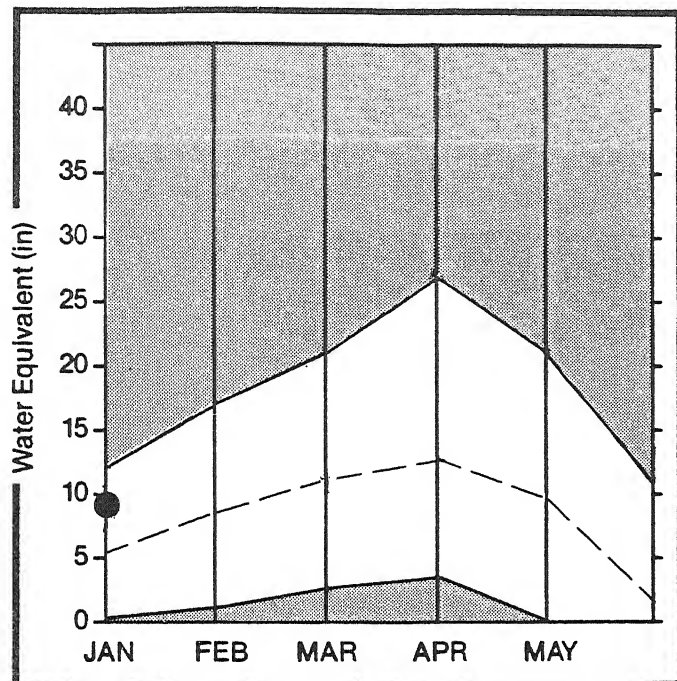
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST. PROBABLE (1000AF)	HIST. PROBABLE (% AVE.)	PEAK MAX. (% AVE.)	PEAK RTN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
PROVO near Hailstone	APR-JUL	106.0	145.0	136.0	179.7	98.1				
PROVO below Deer Creek Dam	APR-JUL	118.0	170.0	144.0	184.7	95.8				
AMERICAN FORK near American Fl.	APR-JUL	31.0	44.0	142.0	242.0	58.0				
HOBBLE CREEK near Springville	APR-JUL	18.7	30.0	160.0	273.0	64.0				
STRAWBERRY RESERVOIR inflow	APR-JUL	53.0	88.0	166.0	194.2	128.3				
PAYSON CREEK near Payson	APR-JUL	6.2	9.1	146.0	250.0	41.0				
UTAH LAKE inflow	APR-JUL	238.0	425.0	178.0	229.4	178.6				
LITTLE COTTONWOOD CRK near SLC	APR-JUL	38.0	48.0	126.0	144.7	100.0				
BIG COTTONWOOD CRK near SLC	APR-JUL	37.0	50.0	135.0	151.4	116.2				
PARLEY'S CREEK near SLC	APR-JUL	14.8	21.0	141.0	182.4	108.1				
MILL CREEK near SLC	APR-JUL	5.8	9.0	155.0	206.9	103.8				
EMIGRATION CREEK near SLC	APR-JUL	3.7	9.0	243.0	414.2	100.0				
CITY CREEK near SLC	APR-JUL	7.7	11.0	142.0	243.9	59.0				
SETTLEMENT CREEK near Tooele	APR-JUL	2.3	2.3	100.0	143.0	57.0				
SOUTH WILLOW CREEK near Grantsville	APR-JUL	3.0	2.7	90.0	166.7	33.3				
VERNON CREEK near Vernon	APR-JUL	827.0	992.0	119.0	183.8	56.0				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	THIS YEAR	LAST YEAR AVE.	WATERSHED	NO. COURSES AVE. D.	THIS YEAR AS % OF LAST YR.	AVERAGE
DEER CREEK	149.7	128.0	123.3	93.5	PROVO RIVER & UTAH LAKE	9	92	134
SETTLEMENT CREEK	1.0	0.8	0.0	0.6	PROVO RIVER	4	108	152
STRAWBERRY-ENLARGED	951.4	506.0	271.7	---	JORDAN RIVER & GREAT SALT	5	72	124
UTAH LAKE	883.9	900.0	1155.4	601.6	TOOELE VALLEY WATERSHEDS	6	0	0
VERNON CREEK	0.6	0.2	0.0	0.4	UTAH LAKE, JORDAN RIVER &	14	83	130

*Corrected for upstream diversions or changes in reservoir storage.
 ** Ave is for 1961-80 period.

Uintah Basin & Dagget SCD's

Mountain snowpack* (inches)



*Based on selected stations

Maximum



Average



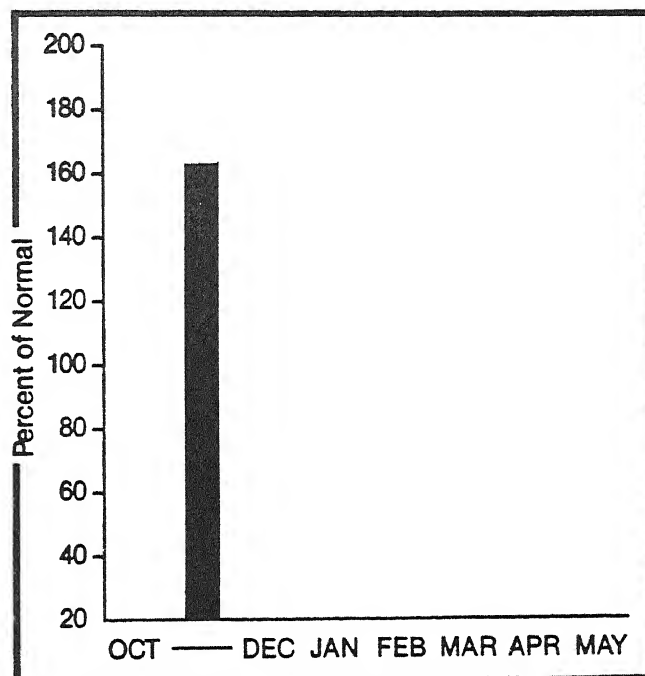
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

January 1 snowpack on drainages in the Uintas was well above average ranging from 133% on Ashley Creek to 224% on Lakefork-Yellowstone Creeks. The ten courses on the Duchesne River averaged 90% above normal. Streamflow forecasts range from 125% for Black's Fork near Millburne to 202% for the Duchesne near Myton. October through December precipitation was 163% of average. Stored water in the reservoirs of the Uintah Basin is 143% of average.

For more information contact your local Soil Conservation Service office:
Roosevelt Field Office 801-722-4621

UINTAH BASIN & DAGGET SCD'S

STREAMFLOW FORECASTS

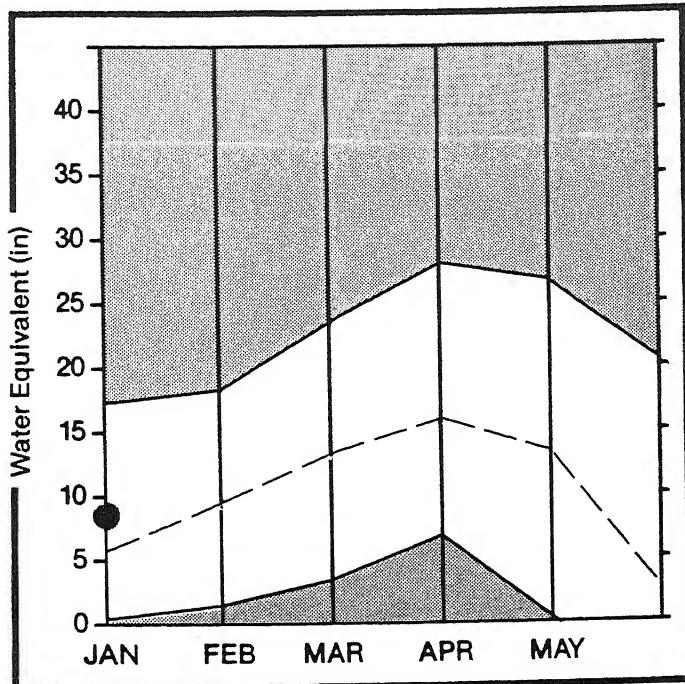
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MTN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
DUCHESNE RIVER near Tsbions	APR-JUL	105.0	150.0	142.0	168.6	111.4				
DUCHESNE RIVER near Duchesne	APR-JUL	189.0	275.0	145.0	176.7	115.3				
STRAWBERRY RIVER at Duchesne	APR-JUL	58.0	95.0	163.0	237.9	89.7	890			
ROCK CREEK near Mountain Home	APR-JUL	93.0	135.0	145.0	179.6	118.3	1980			
CURRENT CREEK near Fruitland	APR-JUL	20.0	31.0	155.0	200.0	110.0				
LAKEFORK RIVER near Mountain Home	APR-JUL	70.0	95.0	135.0	170.0	107.1				
YELLOWSTONE RIVER near Altonsh	APR-JUL	65.0	88.0	135.0	176.0	93.8				
DUCHESNE near Hyton	APR-JUL	205.0	415.0	202.0	225.4	145.4				
WHITE ROCKS RIVER near Whitelocks	APR-JUL	58.0	88.0	151.0	193.1	110.0				
UTAH RIVER near Peols	APR-JUL	86.0	130.0	151.0	173.0	109.3				
DUCHESNE near Randlett	APR-JUL	257.0	500.0	194.0	268.5	120.6				
WEST FORK DUCHESNE RIVER near Henna	APR-JUL	26.0	37.5	144.0	176.9	107.7				
HENRY'S FORK near Manile	APR-SEP	48.0	67.0	139.0	185.4	104.2				
BLACK'S FORK near Millburne	APR-JUL	90.0	113.0	125.0	200.0	51.1				
FLAMING GORGE RESERVOIR inflow	APR-JUL	1248.0	1560.0	125.0	160.0	94.0				
ASHLEY CREEK near Vernal	APR-JUL	51.0	69.0	135.0	168.6	107.8				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** THIS YEAR	USEABLE STORAGE LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
FLAMING GORGE	3749.0	3117.0	3373.0	---	UPPER GREEN RIVER in UTAH	8	108	140
MOON LAKE	35.8	17.6	24.8	13.6	ASHLEY CREEK	2	102	133
RED FLEET	26.0	19.0	18.8	---	BLACK'S FORK RIVER	3	104	139
STEINAKER	33.3	29.0	29.5	18.2	SHEEP CREEK	2	134	157
STARVATION	165.3	149.0	124.2	105.2	DUCHESNE RIVER	10	107	190
STRAWBERRY-ENLARGED	951.4	508.0	271.7	---	LAKE FORK-YELLOWSTONE CRE	3	113	224
					STRAWBERRY RIVER	4	105	189
					UINTAH-WHITEFLOCKS RIVERS	2	113	174
					UINTAH BASIN & DAGGET SCD	19	107	174

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Carbon, Emery, Wayne, Grand, and San Juan Co.

Mountain snowpack* (inches)

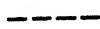


*Based on selected stations

Maximum



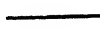
Average



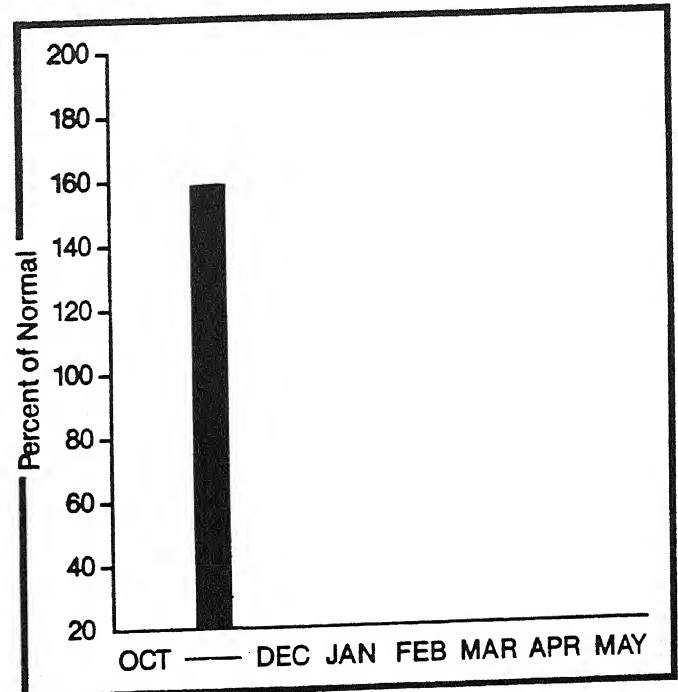
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Snowpack on Southeastern Utah watersheds ranges from 121% of average on the Blue Mountains to 153% for the San Rafael. Streamflow is forecast 110% for Seven Mile Creek near Fish Lake ranging upward to 156% for Ferron Creek near Ferron. Precipitation at mountain stations for the October through December period was 159% of normal. Reservoir storage stands at 132% of average for the four area reservoirs with an established average ranging from 113% for Joe's Valley to 243% for Millsite.

For more information contact your local Soil Conservation Service office:
Price Field Office 801-637-0041

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

STREAMFLOW FORECASTS

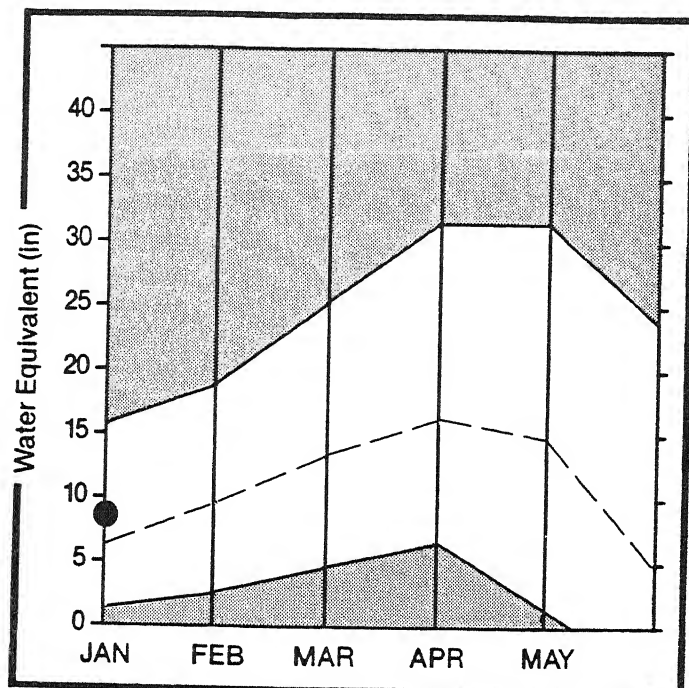
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GOOSEBERRY CREEK near Scofield	APR-JUL	10.7	14.0	130.0	222.0	54.0				
SCOFIELD RESERVOIR inflow	APR-JUL	38.0	52.0	136.0	178.9	102.6				
PRICE near Hainer	APR-JUL	63.0	95.0	150.0	256.0	62.0				
HUNTINGTON CREEK near Huntington	APR-JUL	49.0	75.0	153.0	198.0	118.4				
COTTONWOOD CREEK near Orangeville	APR-JUL	47.0	73.0	155.0	193.6	117.0				
FERRON CREEK near Ferron	APR-JUL	37.0	58.0	156.0	200.0	113.5	654			
MUDDY CREEK near Emery	APR-JUL	18.5	26.0	140.0	200.0	81.1	223			
COLORADO near Cisco, UT	APR-JUL	3046.0	4600.0	151.0	209.0	105.0				
GREEN near Green Rv., UT	APR-JUL	3016.0	4000.0	132.0	168.6	94.6				
HILL CREEK near Moab	APR-JUL	5.5	8.6	156.0	218.2	90.9				
NAVAJO RESERVOIR inflow	APR-JUL	684.6	950.0	138.0	198.8	93.9				
SAN JUAN near Bluff, UT	APR-JUL	995.0	1300.0	130.0	198.7	78.7				
SEVEN MILE CREEK near Fish Lake	APR-JUL	6.5	7.2	110.0	169.2	46.2				

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE	
HUNTINGTON NORTH	3.9	2.5	4.1	2.0	PRICE RIVER	3	97	139	
JOE'S VALLEY	54.6	48.4	50.0	42.2	SAN RAFAEL RIVER	7	81	153	
JOHN'S LAKE	2.3	0.9	0.0	---	MUDDY RIVER	2	92	102	
HILL SIDE	16.7	7.3	9.3	3.0	FREMONT RIVER	3	109	152	
SCOFIELD	65.8	45.0	47.0	30.3	LASAL MOUNTAINS	2	182	136	
					BLUE MOUNTAINS	2	119	121	
					ESCALANTE RIVER	1	85	124	
					VIRGIN RIVER	4	56	117	
					CARBON, EMERY, WAYNE, GRA	24	88	138	

Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

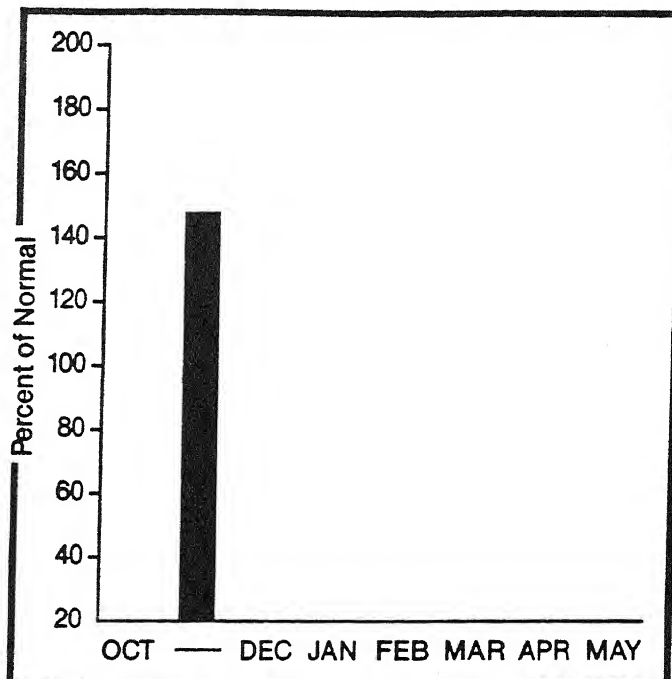
Sevier & Beaver River Basins

Mountain snowpack* (inches)







*Based on selected stations


Precipitation* (percent of normal)



*Based on selected stations

Maximum 
Minimum 

Average 
Current 

Monthly precipitation 

Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snowpack on the Sevier River watershed ranges from 125% on the South Fork to 139% on the Lower Sevier. Beaver River snowpack is 189% of normal for January 1. Water supply forecasts on the Sevier range from 131% at Hatch to 346% on the Siquerd to Gunnison reach. The Beaver River is forecast 139% with Minersville Reservoir Inflow Forecast 203%. October through December precipitation over the watershed was 151% of normal. Reservoir storage in the Sevier basin is 83% of capacity and 212% of average.

For more information contact your local Soil Conservation Service office:
Richfield Field Office 801-896-6261
Fillmore Field Office 801-743-6655

SEVIER & BEAVER RIVER BASINS

STREAMFLOW FORECASTS

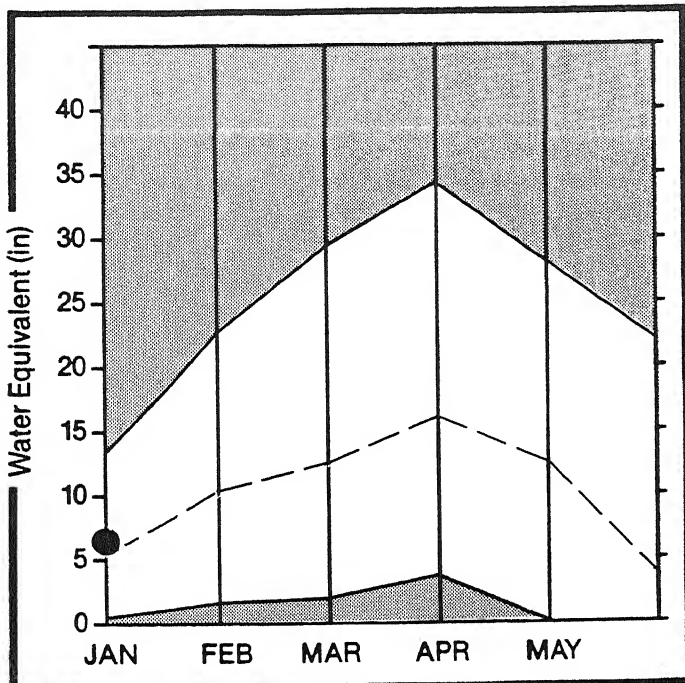
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST PROBABLE (1000AF)	HIST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SEVIER at Hatch	APR-JUL	48.0	63.0	131.0	187.5	87.5				
SEVIER near Circleville	APR-JUL	38.0	60.0	157.0	268.0	65.0				
SEVIER near Kingston	APR-JUL	29.0	40.0	137.0	255.2	51.7				
ANTIMONY CREEK near Antimony	APR-JUL	10.3	11.0	106.0	182.0	44.0				
E F SEVIER near Kingston	APR-JUL	18.9	30.0	159.0	264.0	106.0				
SEVIER b/w Piute Dam	APR-JUL	45.0	70.0	155.0	264.4	80.0				
CLEAR CREEK near Sevier	APR-JUL	18.9	25.0	132.0	225.0	54.0				
SIGURD to GUNNISON	APR-JUL	26.0	90.0	346.0	457.7	245.2				
KINGSTON to VERMILLION DAM	APR-JUL	45.0	110.0	244.0	416.0	100.0				
VERMILLION DAM to GUNNISON	APR-JUL	35.0	100.0	285.0	486.0	117.0				
SALINA CREEK at Salina	APR-JUL	11.9	24.0	201.0	343.0	93.0				
SEVIER nr Gunnison	APR-JUL	54.0	150.0	277.0	472.0	114.0				
CHALK CREEK near Fillmore	APR-JUL	16.4	18.9	115.0	176.8	54.9				
CHICKEN CREEK near Levan	APR-JUL	3.5	4.5	128.0	171.4	85.7				
OAK CREEK near Oak City	APR-JUL	1.6	1.9	118.0	187.5	0.0				
EPHRAIM CREEK near Ephraim	APR-JUL	14.9	20.0	134.0	228.0	59.0				
PLEASANT CREEK near Pleasant	APR-JUL	8.6	11.0	127.0	217.0	52.0				
SALT CREEK near Nephi	APR-JUL	13.5	15.1	111.0	207.4	14.8				
BEAVER RIVER near Beaver	APR-JUL	23.0	32.2	139.0	213.0	82.6	347			
NORTH CREEK near Beaver (combined N	APR-JUL	14.6	19.7	134.0	232.9	41.1				
MINERSVILLE RESERVOIR inflow	APR-JUN	8.9	18.1	203.0	280.9	123.6				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
GUNNISON	18.2	16.8	15.8	9.5	UPPER SEVIER RIVER (south	11	74	128
MINERSVILLE (RkvFd)	26.0	13.1	22.2	9.3	EAST FORK SEVIER RIVER	4	91	194
OTTER CREEK	52.5	50.2	49.3	23.8	SOUTH FORK SEVIER RIVER	7	68	125
PIUTE	71.8	46.5	59.1	29.3	LOWER SEVIER RIVER (inclu	12	98	139
SEVIER BRIDGE	236.0	208.1	201.4	87.0	BEAVER RIVER	2	122	188
PANQUITCH LAKE	22.3	18.7	0.0	—	SEVIER & BEAVER RIVER BAS	25	90	128

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

E. Garfield, Kane, Washington, & Iron Co.

Mountain snowpack* (inches)

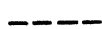


*Based on selected stations

Maximum



Average



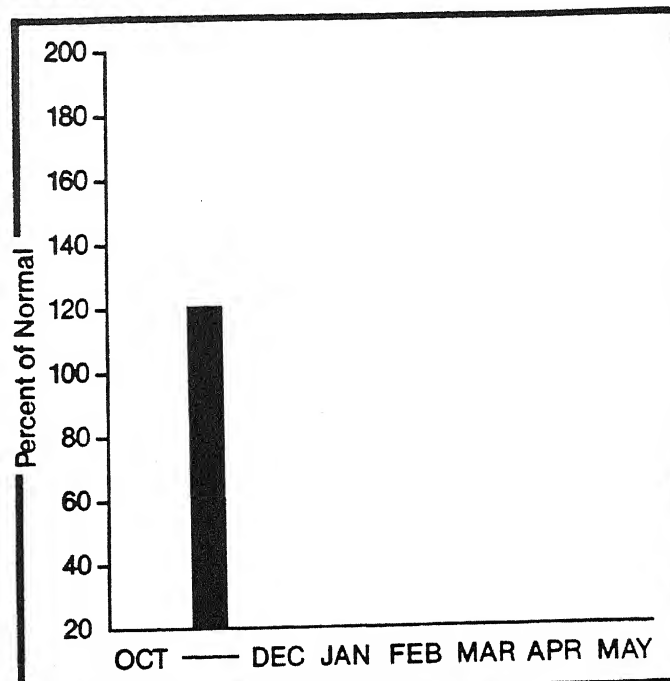
Minimum



Current



Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

Snowpack on Southwestern Utah watersheds is slightly above average for January 1. Enterprise to New Harmony snowpack is 105%. Snow on the Virgin River is 117% of normal. Water supplies are forecast above average assuming normal snow accumulation for the remainder of the snow season. Forecasts range from 113% for Santa Clara to 145% for the Virgin. Mountain precipitation for October-December was 121% of average.

For more information contact your local Soil Conservation Service office:
Cedar City Field Office 801-586-2429

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
VIRGIN near Hurricane	APR-JUL	62.0	90.0	145.0	195.0	113.0				
SANTA CLARA near Pine Valley	APR-JUL	5.3	6.0	113.0	192.0	46.0				
COAL CREEK near Cedar City	APR-JUL	18.8	22.0	119.0	168.5	87.0				
LAKE POWELL inflow	APR-JUL	7462.0	10600.0	142.0	192.1	99.0				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
BLUE MESA	830.0	566.0	663.0	432.0	PAROWAN	4	85	116
LAKE POWELL	25002.0	22993.0	22605.0	---	ENTERPRISE TO NEW HARMONY	2	39	105
					COAL CREEK	3	63	113
					E. GARFIELD, KANE, WASHIN	9	68	114

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Utah Snow Course Measurements

January 1, 1986

SNOWCOURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
ASHLEY TWIN LAKES	10500	Not scheduled this month	-	-	-	-
ATWOOD LAKE	10500	01/01	-	9.5	-	-
BEAVER CREEK DIVIDE	8280	12/26	26	7.2	6.9	4.6
BEAVER CREEK R.S.	7500	*	-	-	5.5	3.7
BEAVER CREEK-SKUNK	7150	*	-	-	9.3	4.8
BEAVER DAMS	8000	12/28	22	6.3	6.0	4.3
BEAVER RACE TRACK	6020	*	-	-	-	-
BEN LOMOND PEAK	8000	12/26	63	20.3	26.5	12.6
BEN LOMOND TRAIL	6000	12/26	44	13.9	15.6	5.5
BEVAN'S CABIN	6450	01/02	19	4.8	-	5.5
BIG FLAT	10290	12/31	52	15.0	-	6.6
BIRCH CROSSING	8100	01/06	16	4.0	3.7	3.3
BLACK'S FLAT-U.M. CR	9400	12/28	24	6.5	6.9	4.9
BLACK'S FORK	9200	01/01	-	7.9E	8.1	5.4
BLACK'S FORK GS-EF	9240	12/26	17	4.2	4.3	3.4
BLACK'S FORK JUNCTN	8930	12/26	19	4.5	5.4	3.5
BOX CREEK	9300	12/29	23	6.8	8.2	5.0
BRIAN HEAD	10000	12/30	36	11.2	12.8	8.7
BROWN DUCK RIDGE	10600	12/27	44	13.5	12.5	5.7
BRYCE CANYON	8000	12/30	10	2.5	2.7	2.0
BUCK FLAT	9800	12/28	32	10.0	11.7	6.7
BUCK PASTURE	9700	Not scheduled this month	-	-	-	-
BUCKBOARD FLAT	9000	12/19	28	8.0	5.9	7.1
BUG LAKE	7950	12/26	34	10.3	11.1	6.1
BURNT CREEK	7900	*	-	-	1.3	2.4
BURT'S-MILLER RANCH	7900	12/26	12	3.6	2.8	2.3
CAMP JACKSON	8600	12/19	30	8.6	8.0	6.6
CASTLE VALLEY	9580	12/31	28	6.1	9.2	6.1
CEDAR CITY GOLF COUR	5800	*	-	-	.5	-
CHALK CREEK #1	9100	12/26	48	15.7	14.3	8.8
CHALK CREEK #2	8200	12/26	32	9.1	8.9	6.1
CHALK CREEK #3	7500	12/26	19	4.6	4.9	3.5
CHEPETA	10300	12/27	35	10.1	7.6	-
CHEPETA-WHITERKS. LK	10350	Not scheduled this month	-	-	-	-
CLEAR CREEK MEADOWS	9420	"	"	"	14.8	8.0
CLEAR CREEK RIDGE #1	9200	12/27	31	8.7	11.0	7.7
CLEAR CREEK RIDGE #2	8000	12/27	26	6.5	8.4	6.1
CLEAR CREEK RIDGE #3	6600	12/27	19	4.1	5.1	3.5
CUB RIVER R.S.	5450	12/26	20	4.8	5.0	3.5
CURRENT CREEK	8000	12/27	26	7.7	7.7	3.9
DANIELS-STRAWBERRY	8000	12/27	31	10.8	9.3	5.7
DESERET PEAK	9250	Not scheduled this month	-	-	-	-
DILL'S CAMP	9200	12/28	24	7.2	8.4	5.2
DONKEY RESERVOIR	9800	12/29	16	3.9	-	-
DRY BREAD POND	8350	12/27	26	7.8	12.4	6.9
DRY VALLEY DIVIDE AL	8100	*	-	-	7.4	6.7
DUCK CREEK R.S.	8700	01/01	-	5.9E	9.2	5.1
EAST PORTAL	7560	*	-	-	8.8	4.8
EAST SHINGLE LAKE	9800	Not scheduled this month	-	-	-	-
FARMINGTON CANYON	8000	12/26	51	16.7	21.9	12.6
FARMINGTON CANYON L.	6950	12/26	43	12.4	16.8	9.5
FARNSWORTH LAKE	9600	12/28	30	8.9	10.4	7.9
FISH LAKE	8700	12/29	22	5.2	3.8	3.1
FIVE POINT LAKE	11000	01/01	-	6.4	-	-
FRANKLIN BASIN	8020	12/26	35	11.0	15.9	7.6
G.B.R.C. HEADQUARTER	8700	12/20	32	10.2	9.8	6.8
G.B.R.C. MEADOWS	10000	12/28	39	12.7	14.2	9.0
GARDEN CITY SUMMIT	7600	12/26	32	9.8	11.5	7.3
GEORGE PEAK	9000	Not scheduled this month	-	-	-	-
GOOSEBERRY R.S.	8000	12/28	23	6.7	6.7	5.2
GRIZZLY RIDGE	8500	*	-	-	4.3	4.3
HARDSCRABBLE	6700	12/26	40	12.5	16.5	-
HARRIS FLAT	7700	12/31	17	3.8	7.4	3.2
HAYDEN FORK	9400	12/26	24	7.1	8.5	5.6
HENRY'S FORK	10000	Not scheduled this month	-	-	-	-
HEWINTA G.S.	9500	12/26	19	4.2	4.5	3.5
HOLE-IN-THE-ROCK	9150	12/26	15	3.4	-	2.2
HOLE-IN-THE-ROCK GS	8300	Not scheduled this month	-	-	-	-
HICKERSON PARK	9100	12/27	16	3.4	3.0	1.9
HOBBLE CREEK SUMMIT	7420	12/27	30	8.5	9.9	5.9
HORSE RIDGE	8260	12/27	34	10.3	15.0	7.6
MUNTINGTON-HORSESHOE	9800	12/28	38	13.8	13.2	7.9
INDIAN CANYON	9100	12/27	31	7.9	8.0	5.3
JACKSON PARK	10600	*	-	-	8.1	2.7
JOHNSON VALLEY	8850	12/29	19	4.9	4.5	2.9
KILFOIL CREEK	7300	12/27	29	7.3	10.2	4.8
KIMBERLY MINE(UPPER)	9300	12/31	36	9.3	9.3	6.0
KING'S CABIN (UPPER)	8730	12/27	21	5.4	5.5	4.4
KLODKE NARROWS	7400	12/26	31	9.5	14.0	7.7
KOLOD-CRYSTAL	9250	12/31	34	9.6	-	6.5
LAKEFORK BASIN	11000	01/01	-	10.3	-	-
LAKEFORK MOUNTAIN #1	10200	12/27	29	8.8	6.9	4.2
LAKEFORK MOUNTAIN #3	8400	12/27	19	4.8	4.6	2.2
LAKES CANYON	7400	12/30	32	9.4	12.9	7.4
LASAL MOUNTAIN LOWER	8800	12/18	23	6.6	3.3	4.7
LASAL MOUNTAIN (UPP)	9850	12/18	33	9.2	5.4	6.9
LIGHTNING LAKE	10500	01/01	-	15.3	-	-
LILY LAKE	9050	12/26	31	9.1	9.1	-
LITTLE BEAR (LOWER)	6000	12/26	28	7.6	8.5	3.6

SNOWCOURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
LITTLE BEAR (UPPER)	6550	12/26	32	9.1	9.6	4.2
LITTLE GRASSY CREEK	6100	12/30	3	0.4	5.6	1.2
LONG FLAT	8000	12/30	12	3.6	4.6	2.6
LONG VALLEY JCT.	7500	12/29	14	3.8	6.7	1.9
LOST CREEK RESERVOIR	4130	12/27	17	3.5	14.8	8.1
MANMOTH-COTTONWOOD	8800	12/28	42	14.3	7.9	5.2
MERCHANT VALLEY (UP)	8750	12/31	38	9.6	-	-
MIDDLE BEAVER CREEK	8650	Not scheduled this month	-	-	-	-
MIDDLE CANYON	7000	01/02	27	6.7	-	5.9
MIDDLE FORK	9600	*	-	-	-	-
MIDWAY VALLEY	9800	12/31	34	9.0	15.3	8.3
MILL CREEK	6950	12/31	33	9.7	13.3	7.4
MILL D SOUTH FORK	7400	12/31	29	8.6	13.6	7.8
MONTE CRISTO R.S.	8960	12/26	35	11.2	16.0	9.7
MONTECELLO PARK	7050	*	-	-	2.0	1.8
MOSBY MOUNTAIN(LOW)	9500	12/27	27	7.3	6.4	4.2
MT. BALDY R.S.	9500	12/28	43	13.7	13.5	9.1
MUD CREEK #2	8600	12/28	29	7.5	8.4	5.7
OAK CREEK	7760	01/01	28	7.2	6.4	5.0
ONE MILE SUMMIT	7330	Not scheduled this month	-	-	-	-
ORANGE ULSEN	7200	*	-	-	4.5	1.6
OTTER LAKE	9600	12/31	38	9.9	8.1	5.1
PANQUITCH LAKE	8200	12/31	13	3.6	4.3	2.5
PARADISE PARK	10100	12/27	32	9.8	8.7	5.6
PARK CITY SUMMIT	9300	Not scheduled this month	-	-	19.5	14.7
PAYSON R.S.	7500	12/30	33	9.3	12.6	7.7
PICKLE KEG SPRING	8050	01/01	33	8.9	11.9	7.7
PINE CANYON	9600	12/28	27	7.8	8.7	6.1
PINE CREEK	8000	12/27	31	9.8	15.1	6.8
REDDEN MINE LOWER	8500	12/31	34	9.9	9.1	6.8
RED PINE RIDGE	9200	12/26	33	10.9	11.9	6.6
REES'S FLAT	7300	12/28	27	8.1	11.2	6.7
REYNOLDS PARK	10400	01/01	30	7.6	8.4	5.6
ROCK CREEK	7900	Not scheduled this month	-	-	-	-
ROCKY BASIN-SETTLEMT	8900	12/27	24	6.6	7.7	2.2
SAGEBRUSH FLAT	6300	01/02	35	11.3	-	18.1
SEELEY CREEK R.S.	10000	12/28	31	9.8	4.8	2.2
SERGEANT LAKES	8300	Not scheduled this month	-	-	13.1	4.7
SHINGLE MILL	6200	12/30	15	3.7	-	-
SILVER LAKE(BRIGHT.)	8730	12/31	41	12.9	3.3	4.3
SMITH & MOREHOUSE	7600	12/26	27	7.6	17.3	10.0
SNOWBIRD GAD VALLEY	9700	Not scheduled this month	-	-	9.2	5.3
SOAPSTONE R.S.	7800	01/01	-	6.7E	7.2	11.9
SPIRIT LAKE	10300	12/27	27	7.6	5.2	5.4
SQUAW SPRINGS	9300	12/29	20	4.8	4.2	3.1
STEEL CREEK PARK	10100	12/26	36	9.7	8.0	6.3
STEEP HOLLOW #1	8500	*	-	-	22.4	13.2
STEEP HOLLOW #2	7700	*	-	-	17.4	8.9
STILLWATER CAMP	8550	12/26	21	5.5	5.8	4.0
STRAWBERRY DIVIDE	8400	12/31	44	12.1	11.7	7.9
STUART R.S.	7950	12/28	19	4.1	6.2	3.1
SUSC RANCH	8200	01/06	17	5.0	5.8	3.4
TALL POLES	8800	01/06	28	6.5	8.6	6.0
THISTLE FLAT	8500	Not scheduled this month	-	-	-	2.2
TIMPANGCOS DIVIDE	8140	01/01	44	14.0	-	10.4
TONY GROVE LAKE	8400	12/26	52	17.5	22.2	14.2
TONY GROVE R.S.	6250	12/26	25	6.6	8.7	4.6
TRAIL LAKE	9960	12/26	49	15.8	14.0	10.7
TROUT CREEK	9400	12/27	23	6.2	5.9	4.3
TROUT JOES VALLEY	8900	12/28	21	5.3	8.6	4.2
VERNON CREEK	7500	01/07	25	6.2	-	4.0
VIBONT	7670	Not scheduled this month	-	-	-	7.2
WEBSTER FLAT	9200	12/31	26	6.5	11.7	6.4
WHITE RIVER #1	8550	12/27	30	8.1	7.6	5.3
WHITE RIVER #3	7400	12/27	21	4.9	5.1	3.8
WIDTSOE-ESCALANTE #3	9500	12/29	23	6.2	7.3	5.0
WILLOW FLAT	6100	12/28	32	9.2	8.8	6.1
WRIGLEY CREEK	9000	12/28	24	6.6	7.4	4.3
YANKEE RESERVOIR	8700	12/30	17	4.0	5.3	4.1

NOTE * These sites have been discontinued during the past summer as a result of the Soil Conservation Service Snow Course Reduction Plan, PHASE-I. These sites have proved to be duplicative in nature.

Black's Fork, Duck Creek R. S., and Soapstone R. S. snow courses have also been discontinued as a result of statistical testing in PHASE-II of the above mentioned plan. For these sites, however, estimates will be produced and published monthly for the next five years.